

Title (en)

WIND TURBINE AND POWER SUPPLY SYSTEM

Title (de)

WINDTURBINE UND ENERGIEVERSORGUNGSSYSTEM

Title (fr)

EOLIENNE ET SYSTÈME D'ALIMENTATION EN COURANT

Publication

**EP 2315939 A1 20110504 (EN)**

Application

**EP 09761764 A 20090611**

Priority

- EP 2009057239 W 20090611
- EP 08158057 A 20080611
- EP 09761764 A 20090611

Abstract (en)

[origin: EP2133560A1] A horizontal axis wind turbine (10) for generating electrical energy for supply to an energy storage device (43) having a limited energy storage capability. The wind turbine (10) comprises: a rotor (12) having a plurality of blades (11 a-c) mechanically connected thereto for converting kinetic wind energy to rotation of the rotor (12) at a rotational speed; a generator (17) comprising a stationary portion (18) and a rotatable portion (16) connected to the rotor (12) for interacting with the stationary portion (18) to convert the rotation of the rotor (12) into electrical energy for supply to the energy storage device (43); a sensor (46) for sensing the rotational speed of the rotor (12) and for outputting a signal indicative thereof and a braking system (47) controllable to mechanically interact with the rotor (12) to reduce the rotational speed of the rotor (12). The wind turbine further comprises processing circuitry (45) operatively connected to the sensor (46) and to the braking system (47) for evaluating the signal output by the sensor (46) and, if the rotational speed is above a predetermined threshold value, controlling the braking system (47) to reduce the rotational speed through mechanical interaction with the rotor (12).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2009150202A1

Cited by

US9534584B2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

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DOCDB simple family (publication)

**EP 2133560 A1 20091216**; AP 2011005524 A0 20110228; AT E551526 T1 20120415; BR PI0915522 A2 20160126; CN 102099572 A 20110615; EP 2315939 A1 20110504; EP 2315939 B1 20120328; US 2011221193 A1 20110915; WO 2009150202 A1 20091217

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